Name: Date:

Directions: Label the following parts of the microscope.

**STATION #1**

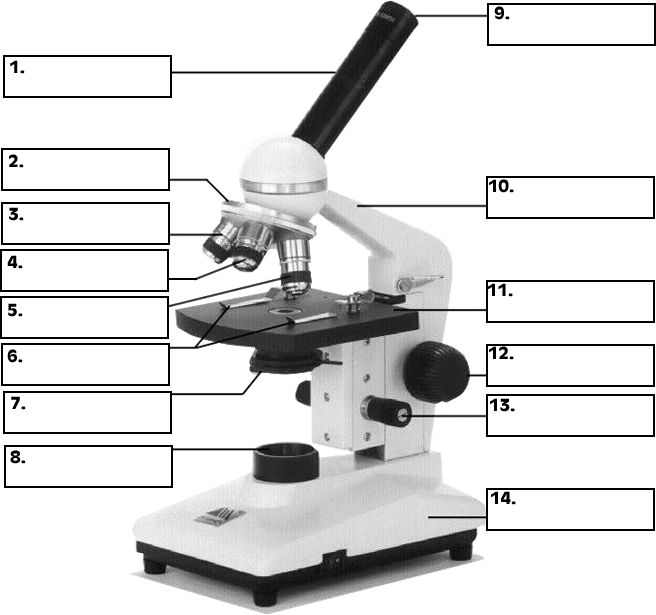


Image Source Page: <http://www.digitalsmicroscope.com/compound-light-microscope-labeled-3/>

Name: Date:

Directions: Make both a wet and dry mount and draw what you see under different magnifications.

**STATION #2**

|  |  |  |
| --- | --- | --- |
| **WET MOUNT** | **DRY MOUNT** | **TOTAL MAGNIFICATION** |
|  |  |  |
|  |  |  |

Name: Date:

Directions: Create your own microscope and draw how the onion skin looks through it.

**STATION #3**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Yes** | **Almost** | **No** |
| Enough and accurate details of structure are shown |  |  |  |
| Uses firm continuous lines (no shading or sketching) |  |  |  |
| Color, pattern and texture are shown using stippling |  |  |  |
| Drawings are neat and presentable, drawn in pencil, and eraser marks are not visible. A title is given. |  |  |  |

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Name: Date:

Directions: Fill in the study guide as you watch the video.

**STATION #4**

1. The invention of the \_\_\_\_\_\_\_\_\_\_ led to the discovery of \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_.

2.) The first microscope was made by \_\_\_\_\_\_\_\_\_\_ 2 lenses in a \_\_\_\_\_\_\_\_\_\_\_\_\_.

3.) The theory of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, was developed \_\_\_\_\_\_\_\_\_\_\_ the microscope, and is the potential to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ different types of \_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

4.) The theory of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is an explanation of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the \_\_\_\_\_\_\_\_\_ is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ process of \_\_\_\_\_\_\_\_\_\_\_\_\_ of species through \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

5.) After the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, the \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ states that the \_\_\_\_\_\_\_\_\_\_ is the\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and a cell can be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ a body.

6.) The first \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ was built in \_\_\_\_\_\_\_\_\_\_ and could extend images up to \_\_\_\_\_\_\_\_\_\_.

7.) The discovery of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ helped create \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_.

8.) The \_\_\_\_\_\_\_\_\_\_\_\_\_ found \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Name: Date:

Directions: Watch the video up until 5min 43sec and fill in the following study guide.

**STATION #5**

1. \_\_\_\_\_\_\_\_\_\_\_\_ examined \_\_\_\_\_\_\_\_ and noticed empty boxes and named them \_\_\_\_\_\_\_\_.
2. The 4 parts of the cell theory are
3. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is what enabled us to extend human vision to see the \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ that make up \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_.
4. Electron microscopes use a beam of \_\_\_\_\_\_\_\_\_\_\_\_ that is \_\_\_\_\_\_\_\_\_ by \_\_\_\_\_\_\_\_\_\_\_\_\_ to give us larger \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
5. There are 2 types of electron microscopes: